

IBM Docket #:SVL920010056US1

Application # 09/895,055

1 Amendments to the Claims

2

3 This listing of claims will replace all prior versions, and listings, of claims in the
4 application:

5

6 Listing of Claims:

7

8 1. (currently amended) A computer implemented method for facilitating trick mode
9 playback for a user, comprising:
10 accessing a plurality of encoded digital video frames and encoded digital audio frames
11 on a first computer system;
12 identifying a subset of said encoded digital video frames for compressed video
13 encoding;
14 identifying a subset of said encoded digital audio frames for compressed audio
15 encoding;
16 for all said identified encoded digital video frames, encoding an associated playback
17 video frame;
18 for all said identified encoded digital audio frames, encoding an associated playback
19 audio frame;
20 downloading said encoded playback video frames and said encoded playback audio
21 frames on a second computer system;
22 streaming said encoded digital video frames and said encoded digital audio frames to
23 said second computer system thereby minimizing resources of said second
24 computer system;
25 decoding said digital video frames and said playback video frames;
26 decoding said digital audio frames and said playback audio frames;
27 if said user directs, incrementally playing said digital video frames or said playback
28 video frames;
29 if said user directs, incrementally playing said digital audio frames or said playback
30 audio frames;
31 enabling said user to switch between playing said digital video frames and said
32 playback video frames;
33 enabling said user to switch between playing said digital audio frames and said
34 playback audio frames;
35 enabling said user to change location of playing said playback video frames; [and]
36 enabling said user to change location of playing said playback audio frames;

IBM Docket #:SVL920010056US1

Application # 09/895,055

1 when switching from playing said playback video frames to playing said digital video
2 frames, matching playing of said digital video frames with said location of
3 playing said playback video frames; and
4 when switching from playing said playback audio frames to playing said digital audio
5 frames, matching playing of said digital audio frames with said location of
6 playing of said playback audio frames.
7

8 2. (original) The method of Claim 1 further comprising said second computer system
9 including a data server computer system and a client computer system.
10

11 3. (original) The method of Claim 1 further comprising said first computer system
12 including an initiating computer system and a data server computer system.
13

14 4. (original) The method of Claim 1 further comprising, when said user directs
15 incrementally playing said playback video frames, enabling said user to direct playing of
16 said playback video frames in either a forward direction or a reverse direction.
17

18 5. (original) The method of Claim 1 further comprising:
19 playing said digital video frames via a digital window on said second computer system;
20 and
21 playing said playback video frames via a preview window on said second computer
22 system.
23

24 6. (original) The method of Claim 1 further comprising:
25 playing said digital video frames via a digital window on said second computer system;
26 and
27 playing said playback video frames via overlaying a preview window on said digital
28 window.
29

30 7. (currently amended) A computer implemented method for facilitating fast audio
31 playback for a user, comprising:
32 accessing a plurality of encoded digital audio frames on a first computer system;
33 identifying a subset of said encoded digital audio frames for compressed audio
34 encoding;

IBM Docket #:SVL920010056US1

Application # 09/895,055

- B 1
- 1 for all said identified encoded digital audio frames, encoding an associated playback
2 audio frame;
3 downloading said encoded playback audio frames on a second computer system;
4 streaming said encoded digital audio frames to said second computer system thereby
5 minimizing resources of said second computer system;
6 decoding said digital audio frames and said playback audio frames;
7 if said user directs, incrementally playing said digital audio frames or said playback
8 audio frames;
9 enabling said user to switch between playing said digital audio frames and said
10 playback audio frames;
11 enabling said user to change location of playing said playback audio frames; and
12 when switching from playing said playback audio frames to playing said digital audio
13 frames, matching playing of said digital audio frames with said location of
14 playing of said playback audio frames.
15
- 16 8. (original) The method of Claim 7 further comprising said second computer system
17 including a data server computer system and a client computer system.
18
- 19 9. (original) The method of Claim 7 further comprising said first computer system
20 including an initiating computer system and a data server computer system.
21
- 22 10. (original) The method of Claim 7 further comprising:
23 playing said digital audio frames via a digital window on said second computer system;
24 and
25 playing said playback audio frames via a preview window on said second computer
26 system.
27
- 28 11. (original) The method of Claim 10 further comprising:
29 associating audio attributes with said playback audio frames; and
30 representing said associated audio attributes on said preview window.
31
- 32 12. (currently amended) A computer implemented method for facilitating trick mode
33 playback for a user, comprising:
34 accessing a plurality of encoded digital video frames and a plurality of encoded digital
35 audio frames on a first computer system;

IBM Docket #:SVL920010056US1

Application: # 09/895,055

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1 identifying a subset of said encoded digital video frames for compressed video encoding;
2 identifying a subset of said encoded digital audio frames for compressed audio encoding;
3 for all said identified encoded digital video frames, encoding an associated playback
4 video frame;
5 for all said identified encoded digital audio frames, encoding an associated playback
6 audio frame;
7 downloading said encoded playback video frames and said encoded playback audio
8 frames on a second computer system;
9 multiplexing said encoded digital video frames and said encoded digital audio frames on
10 said first computer system;
11 streaming said multiplexed digital frames to said second computer system thereby
12 minimizing resources of said second computer system;
13 de-multiplexing said multiplexed digital frames;
14 decoding said encoded digital video frames, said encoded digital audio frames, said
15 encoded playback video frames, and said encoded playback audio frames; and
16 if said user directs:
17 synchronizing said digital video frames and said digital audio frames and playing said
18 synchronized digital video frames and digital audio frames; or
19 synchronizing said playback video frames and said playback audio frames and
20 playing said synchronized playback video frames and playback audio
21 frames;
22 enabling said user to switch between playing said synchronized digital video frames and
23 digital audio frames and said synchronized playback video frames and
24 playback audio frames;
25 enabling said user to change location of playing said synchronized playback video frames
26 and playback audio frames; and
27 when switching to playing said synchronized digital video frames and digital audio
28 frames, matching playing of said synchronized digital video frames and digital
29 audio frames with said location of playing of said synchronized playback
30 video frames and playback audio frames.

31
32 13. (original) The method of Claim 12 further comprising said second computer system
33 including a data server computer system and a client computer system.
34

IBM Docket #:SVL920010056US1

Application # 09/895,055

1 14. (original) The method of Claim 12 further comprising said first computer system
2 including an initiating computer system and a data server computer system.
3

4 15. (original) The method of Claim 12 further comprising:
5 playing said synchronized digital video frames and digital audio frames via a digital
6 window on said second computer system; and
7 playing said synchronized playback video frames and playback audio frames via a
8 preview window on said second computer system.
9

10 16. (original) The method of Claim 12 further comprising:
11 playing said synchronized digital video frames and digital audio frames via a digital
12 window on said second computer system; and
13 playing said synchronized playback video frames and playback audio frames via
14 overlaying a preview window on said digital window.
15

16 17. (currently amended) A computer implemented method for facilitating trick mode
17 playback on a computer system for a user, comprising:
18 accessing a plurality of encoded digital video frames and a plurality of encoded
19 digital audio frames;
20 identifying a subset of said encoded digital video frames for compressed video
21 encoding;
22 identifying a subset of said encoded digital audio frames for compressed audio
23 encoding;
24 for all said identified encoded digital video frames, encoding an associated playback
25 video frame;
26 for all said identified encoded digital audio frames, encoding an associated playback
27 audio frame;
28 downloading said encoded playback video frames and said encoded playback audio
29 frames on said computer system;
30 decoding said digital video frames and said playback video frames on said computer
31 system;
32 decoding said digital audio frames and said playback audio frames on said computer
33 system;
34 if said user directs, incrementally playing said digital video frames or said playback
35 video frames;

IBM Docket #:SVL920010056US1

Application #: 09/895,055

1 if said user directs, incrementally playing said digital audio frames or said playback
2 audio frames;
3 enabling said user to switch between playing said digital video frames and said
4 playback video frames;
5 enabling said user to switch between playing said digital audio frames and said
6 playback audio frames;
7 enabling said user to change location of playing said playback video frames; [and]
8 enabling said user to change location of playing said playback audio frames;
9 when switching from playing said playback video frames to playing said digital video
10 frames, matching playing of said digital video frames with said location of
11 playing said playback video frames; and
12 when switching from playing said playback audio frames to playing said digital audio
13 frames, matching playing of said digital audio frames with said location of
14 playing of said playback audio frames.

15
16 18. (original) A computer implemented method for facilitating fast audio playback on a
17 computer system for a user, comprising:

18 accessing a plurality of encoded digital audio frames;
19 identifying a subset of said encoded digital audio frames for compressed audio
20 encoding;
21 for all said identified encoded digital audio frames, encoding an associated playback
22 audio frame;
23 downloading said encoded playback audio frames on said computer system;
24 decoding said digital audio frames and said playback audio frames on said computer
25 system;
26 if said user directs, incrementally playing said digital audio frames or said playback
27 audio frames;
28 enabling said user to switch between playing said digital audio frames and said
29 playback audio frames;
30 enabling said user to change location of playing said playback audio frames; and
31 when switching from playing said playback audio frames to playing said digital audio
32 frames, matching playing of said digital audio frames with said location of
33 playing of said playback audio frames.
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IBM Docket #:SVL920010056US1

Application # 09/895,055

1 19. (currently amended) An article of manufacture comprising a program storage
2 medium readable by a computer and embodying one or more instructions executable by
3 said computer for causing a computer system to facilitate trick mode playback for a user,
4 comprising:
5 accessing a plurality of encoded digital video frames and a plurality of encoded
6 digital audio frames on a first computer system;
7 identifying a subset of said encoded digital video frames for compressed video encoding;
8 identifying a subset of said encoded digital audio frames for compressed audio encoding;
9 for all said identified encoded digital video frames, encoding an associated playback
10 video frame;
11 for all said identified encoded digital audio frames, encoding an associated playback
12 audio frame;
13 downloading said encoded playback video frames and said encoded playback audio
14 frames on a second computer system;
15 streaming said encoded digital video frames and said encoded digital audio frames to said
16 second computer system thereby minimizing resources of said second
17 computer system;
18 decoding said digital video frames and said playback video frames;
19 decoding said digital audio frames and said playback audio frames;
20 if said user directs, incrementally playing said digital video frames or said playback video
21 frames;
22 if said user directs, incrementally playing said digital audio frames or said playback audio
23 frames;
24 enabling said user to switch between playing said digital video frames and said playback
25 video frames;
26 enabling said user to switch between playing said digital audio frames and said playback
27 audio frames;
28 enabling said user to change location of playing said playback video frames;
29 enabling said user to change location of playing said playback audio frames; [and]
30 when switching from playing said playback video frames to playing said
31 digital video frames, matching playing of said digital video frames with said location of
32 playing said playback video frames; and
33 when switching from playing said playback audio frames to playing said digital audio
34 frames, matching playing of said digital audio frames with said location of
35 playing of said playback audio frames.

IBM Docket #:SVL920010056US1

Application # 09/895,055

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2 20. (original) The article of manufacture of Claim 19 further comprising said second
3 computer system including a data server computer system and a client computer system.
4

5

6 21. (original) The article of manufacture of Claim 19 further comprising said first
7 computer system including an initiating computer system and a data server computer
8 system.

8

9 22. (currently amended) An article of manufacture comprising a program storage
10 medium readable by a computer and embodying one or more instructions executable by
11 said computer for causing a computer system to facilitate fast audio playback for a user,
12 comprising:

13 accessing a plurality of encoded digital audio frames on a first computer system;
14 identifying a subset of said encoded digital audio frames for compressed audio encoding;
15 for all said identified encoded digital audio frames, encoding an associated playback
16 audio frame;

17 downloading said encoded playback audio frames on a second computer system;
18 streaming said encoded digital audio frames to said second computer system thereby
19 minimizing resources of said second computer system;

20 decoding said digital audio frames and said playback audio frames;
21 if said user directs, incrementally playing said digital audio frames or said playback audio
22 frames;

23 enabling said user to switch between playing said digital audio frames and said playback
24 audio frames;

25 enabling said user to change location of playing said playback audio frames; and
26 when switching from playing said playback audio frames to playing said digital audio
27 frames, matching playing of said digital audio frames with said location of
28 playing of said playback audio frames.

29

30 23. (previously presented) The article of manufacture of Claim 22 further comprising
31 said second computer system including a data server computer system and a client
32 computer system.
33

BM Docket #:SVL920010056US1

Application # 09/895,055

1 24. (previously presented) The article of manufacture of Claim 22 further comprising
2 said first computer system including an initiating computer system and a data server
3 computer system.
4

5 25. (currently amended) A computer system for facilitating trick mode playback for a
6 user, comprising:

7 a plurality of encoded digital video frames on a first said computer system;

8 a plurality of encoded digital audio frames on said first computer system;

9 a subset of said encoded digital video frames that are identified for compressed video
10 encoding;

11 a subset of said encoded digital audio frames that are identified for compressed audio
12 encoding;

13 for all said identified encoded digital video frames, an associated encoded playback video
14 frame;

15 for all said identified encoded digital audio frames, an associated encoded playback audio
16 frame;

17 said encoded playback video frames that are downloaded on a second said computer
18 system;

19 said encoded playback audio frames that are downloaded on said second computer
20 system;

21 said encoded digital video frames and said encoded digital audio frames that are streamed
22 to said second computer system thereby minimizing resources of said second
23 computer system;

24 said digital video frames that are decoded from said encoded digital video frames;

25 said digital audio frames that are decoded from said encoded digital audio frames;

26 said playback video frames that are decoded from said encoded playback video frames;

27 said playback audio frames that are decoded from said encoded playback audio frames;

28 while said user directs:

29 said digital video frames being incrementally played on said second computer
30 system; or

31 said playback video frames being incrementally played on said second
32 computer system;

33 while said user directs:

34 said digital audio frames being incrementally played on said second computer
35 system; or

BM Docket #:SVL920010056US1

Application # 09/895,055

B' 1 said playback audio frames being incrementally played on said second
2 computer system;
3 a location of playing said playback video frames being changed by said user;
4 a location of playing said playback audio frames being changed by said user; [and]
5 said location of playing facilitating synchronized playing of said digital video frames
6 when said user directs playing said digital video frames after playing said
7 playback video frames; and
8 said location of playing facilitating synchronized playing of said digital audio frames
9 when said user directs playing said digital audio frames after playing said
10 playback audio frames.
11

- 12 26. (original) The computer system of Claim 25 further comprising said second
13 computer system including a data server computer system and a client computer system.
14
15 27. (original) The computer system of Claim 25 further comprising said first computer
16 system including an initiating computer system and a data server computer system.
17

IBM Docket #:SVL920010056US1

Application # 09/895,055

- 1 28. (currently amended) A computer system for facilitating fast audio playback for a user,
2 comprising:
3 a plurality of encoded digital audio frames on a first said computer system;
4 a subset of said encoded digital audio frames that are identified for compressed audio encoding;
5 for all said identified encoded digital audio frames, an associated encoded playback audio frame;
6 said encoded playback audio frames that are downloaded on a second said computer system;
7 said encoded digital audio frames that are streamed to said second computer system thereby
8 minimizing resources of said second computer system;
9 said digital audio frames that are decoded from said encoded digital audio frames;
10 said playback audio frames that are decoded from said encoded playback audio frames;
11 while said user directs:
12 said digital audio frames being incrementally played on said second computer system; or
13 said playback audio frames being incrementally played on said second computer system;
14 a location of playing said playback audio frames being changed by said user; and
B' 15 said location of playing facilitating synchronized playing of said digital audio frames when said user
16 directs playing said digital audio frames after playing said playback audio frames.
17
- 18 29. (original) The computer system of Claim 28 further comprising said second computer system
19 including a data server computer system and a client computer system.
20
- 21 30. (original) The computer system of Claim 28 further comprising said first computer system
22 including an initiating computer system and a data server computer system.
23
- 24 31. (new) The method of Claim 1 further comprising said encoded digital video frames and
25 encoded digital audio frames including time stamp information.
26
- 27 32. (new) The method of Claim 7 further comprising said encoded digital video frames and
28 encoded digital audio frames including time stamp information.
29

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